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10/816,523	04/01/2004	Jani Hamalainen	59864.01276	9893
	7590 04/08/200 DERS & DEMPSEY L	EXAMINER		
8000 TOWERS	CRESCENT DRIVE	RICE, ELISA M		
14TH FLOOR VIENNA, VA 2	22182-2700	ART UNIT	PAPER NUMBER	
			2624	
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			04/08/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.		Applicant(s)				
		10/816,523		HAMALAINEN, JANI				
			Examiner		Art Unit			
			ELISA M. RICE		2624			
Period fo	The MAILING DATE of this commu or Reply	nication appe	ars on the cover	sheet with the c	orrespondence ad	ddress		
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Status								
1) 又	Responsive to communication(s) file	ed on 19 Feb	oruary 2008					
2a)□	•		iction is non-final					
3)	Since this application is in condition	<i>,</i> —			secution as to the	e merits is		
٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	Claim(s) 1-23 is/are pending in the	application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) <u>17 and 18</u> is/are allowed.							
·	☑ Claim(s) <u>17 and 70</u> is/are allowed. ☑ Claim(s) <u>1-9,11-15 and 19-23</u> is/are rejected.							
· —	Claim(s) <u>10 and 16</u> is/are objected	-						
•	Claim(s) are subject to restri		election requirem	nent.				
	on Papers							
•	The specification is objected to by the				_			
10)	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
	Applicant may not request that any object			-				
	Replacement drawing sheet(s) including	g the correction	n is required if the	drawing(s) is obj	ected to. See 37 C	FR 1.121(d).		
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some col None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2) Notice 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review ( mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		5) <u> </u>	nterview Summary Paper No(s)/Mail Da Notice of Informal Pa Other:	te			

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#### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/19/2008 has been entered. Claims 1-23 are currently pending.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 2, 3, 5, 6, 7, 8, 9, 11, 12, and 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Usui et. al (JP404242106A a translation is on order

and will be provided with the mailing of the next office action) in view of Mack et al. (US patent 6,377,700), Teitelbaum (US 5,872,834) and Picone et. al. (US 5,293,452).

**Regarding claim 1**, Usui discloses an apparatus ("To provide a face recognizing apparatus by which the recognizing rate is further improved", Abstract), comprising:

at least one camera directed toward a user's face and to obtain at least one still image of the user's face (Usui, Figure 2, numeral 112);

memory means for storing user profile information relating to authorized users of a system (Usui, Figure 1, numeral 17);

processor connected to said at least one camera, configured to process the still images obtained by said at least one camera (Figure 1, numeral 13) and to generate a 3-dimensional model of the user's face (Usui, Figure 2, numeral 15, see Figures 3, 5-7), and

processing means for comparing the generated model with the stored user profile information to determine the user (Figure 1, numeral 16).

Usui does not teach (italicized):

(1) at least one camera configured to record at least two still images of <u>a</u> user from at least first and second angles of view;

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(2) to generate a facial texture bit map of the user's face using the at least one still image of the user's face, and to compare the facial texture bit map with the stored user profile information to determine whether the user is authorized to access the system.

- (3) a mobile hand held terminal for recognizing a user's identity during an attempt to access the mobile terminal;
  - (4) processing means for comparing the generated model with the stored user profile information to determine whether the user is *authorized to access a system*, said processing means comprising means for granting access to the system when the generated model matches the profile information of one of the authorized users stored in the memory means, thereby indicating recognition and authorization of the user; and
  - (5) means for *updating the profile information* of the one of the authorized users with the generated model after each grant of access by said means for granting access such that the updated profile information comprises an average of the generated model and the previously stored profile information.

Mack discloses a method and apparatus for capturing stereoscopic images using image sensors ("The present invention relates generally to three-dimensional

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(3-D) models and, in particular, to a method and apparatus for capturing stereoscopic images to be processed into 3-D models of objects.", column 1, line 8) wherein at least two cameras are directed toward the user's face and adapted to record at least two still images of the user from at least first and second angles of view (Mack, Figure 2, numeral 22 and 23).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize, as the image 3D image capture system of Usui, the plural camera system of Mack whereby at least two still images of the user's face are recorded from first and second angles, in order to provide a well known, robust and reliable way with which to capture three dimensional points for modeling an object ("In creating three-dimensional (3-D) models of real objects, a multitude of images of real objects are taken from different positions to exploit the differences in the objects' projection." Mack, column 2, line 40) and without specialized equipment and operating expertise ("by using a 3-D imaging device system that can capture images of objects which are subsequently used to create 3-D data would allow consumers without special expertise to generate 3-D models of real objects expeditiously and with ease" as stated by Mack in column 1, line 52).

Mack also teaches the obtained 2-dimensional still image of the user's face being used to determine the user's facial texture (column 3, line 631).

It would have been obvious to one of ordinary skill in the art to further modify the 3-dimensional face recognition apparatus taught by the 3D image capture system of

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Usui to include textural face data as taught by Mack, in conjunction with the generated 3-dimensional model, to determine whether the user is authorized to access the system, because textural face data provides additional information for comparison for the recognition system "such as physical surface properties of an object" (Mack, column 3, line 631).

While the combination between Usui and Mack discloses the invention above, the combination does not teach

- (3) <u>a mobile hand held terminal</u> for recognizing a user's identity during an attempt to access the mobile terminal;
  - (4) processing means for comparing the generated model with the stored user profile information to determine whether the user is <u>authorized to access a system</u>, <u>said processing means comprising means for granting access to the system when</u> the generated model matches the profile information of one of the authorized users <u>stored in the memory means</u>, thereby indicating recognition and authorization of the <u>user</u>; and
  - (5) means for <u>updating the profile information</u> of the one of the authorized users with the generated model after each grant of access by said means for granting access such that the updated profile information comprises an average of the generated model and the previously stored profile information.

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Teitelbaum discloses a telephone with biometric sensing device ("This invention relates generally to telephones and more particularly to a telephone provided with a contact imaging device for identifying an operator of the telephone.", column 1, line 6) comprising:

- (1) a mobile hand held terminal for recognizing a user's identity during an attempt to access the mobile terminal ("the contact imaging device allows for a user of the telephone to be identified", column 4, line 14);
- (2) processing means for comparing the generated model with the stored user profile information to determine whether the user is authorized to access a system ("The comparator means analyzes the biometric data for identifiable features and compares predetermined features against those of biometric templates stored in non-volatile memory.", Teitelbaum, column 11, line 35), said processing means comprising means for granting access to the system when the generated model matches the profile information of one of the authorized users stored in the memory means, thereby indicating recognition and authorization of the user ("Once identified, the salesman is provided access to telephone features and services in a predetermined manner.", Teitelbaum, column 8, line 50).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the three dimensional modeling and biometric (i.e., facial) biometric system of the Usui and Mack combination described above, into the mobile hand held terminal of Teitelbaum to determine whether the user is authorized to access a system, in order to provide Teitelbaum with a contact free method of capturing

a biometric (i.e., a face instead of a fingerprint) for the convenience of the user, and to ensure accuracy of recognition ("recognizing rate is further improved" at Usui, abstract).

While the combination between Usui, Mack, and Teitelbaum disclose the invention above, the combination does not teach a means for updating the profile information of the one of the authorized users with the generated model after each grant of access by said means for granting access such that the updated profile information comprises an average of the generated model and the previously stored profile information.

Picone discloses a voice log-in using spoken name input ("This invention is a voice log-in technique in which access to, for example, a medical records database, is granted based on the computerized recognition of a person's spoken name.", column 2, line 24) that teaches a means for updating the profile information of the one of the authorized users with the generated model after each grant of access by said means for granting access such that the updated profile information comprises an average of the generated model and the previously stored profile information ("For each successful verification, the dynamic reference updating procedure averages the feature sets associated with the reference template and the input speech, and the reference template is updated accordingly," Picone, column 2, line 1)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to add a means for updating the profile information of the one of the authorized users with the generated model after each grant of access by said means for

granting access such that the updated profile information comprises an average of the generated model and the previously stored profile information as taught by Picone to the combination of Usui, Mack, and Teitelbaum in order to accommodate gradual changes in appearance and maintain recognition over a long time period ("thereby accommodating changes.", Picone, column 2, line 5).

**Regarding claim 2**, Mack further comprises a light source for projecting light at the user's face (Mack, Figure 4, numeral 41).

**Regarding claim 3**, Mack further teaches a light source wherein the light source projects structured light onto the user's face to facilitate the generation of the 3-dimensional model (Mack, Figure 4, numeral 42).

**Regarding claim 5**, Usui further teaches said memory means comprising at least one selected from a group consisting of RAM, ROM, EPROM, and a magnetic storage media, which would be an inherent feature of the database used to store existing user profiles depicted in Usui's drawings (Usui, Figure 1, numeral 17).

**Regarding claim 6**, Usui teaches a processing means comprising a computer, said memory means being contained within said computer (Usui, Figure 2, numeral 114).

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Regarding claim 7, while the combination between Usui, Mack, Teitelbaum, and Picone as applied to claim 1 does teach at least one camera adapted to obtain a 2-dimensional still image of the user's face and a 3-dimensional model to determine whether the user is authorized to access the system, the combination does not teach wherein the obtained 2-dimensional still image of the user's face is used to determine the user's facial texture, the determined facial texture being used in conjunction with the generated 3-dimensional model to determine whether the user is authorized to access the system.

Mack teaches the obtained 2-dimensional still image of the user's face being used to determine the user's facial texture (column 3, line 631).

It would have been obvious to one of ordinary skill in the art to further modify the 3-dimensional face recognition apparatus taught by the combination between Usui, Mack, Teitelbaum, and Picone to include textural face data as taught by Mack, in conjunction with the generated 3-dimensional model, to determine whether the user is authorized to access the system, because textural face data provides additional information for comparison for the recognition system "such as physical surface properties of an object" (Mack, column 3, line 631).

Regarding claim 8, while the combination between Usui, Mack, Teitelbaum, and Picone teaches the invention of claim 1, the combination does not teach wherein said light source comprises at least one selected from a group consisting of white light, Laser light and infrared light.

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Mack discloses a method and apparatus for capturing stereoscopic images using image sensors ("The present invention relates generally to three-dimensional (3-D) models and, in particular, to a method and apparatus for capturing stereoscopic images to be processed into 3-D models of objects.", column 1, line 8) that teaches wherein said light source comprises at least one selected from a group consisting of white light,

Laser light and infrared light ("Alternatively, the vertical lines 21 may be projected onto the object 20 using light source 16 such as infra-red laser or visible laser.", Mack, column 15, line 65).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the infrared light as the light source as taught by Mack in the invention created by the combination of Usui, Mack, Teitelbaum, and Picone infrared light is not visible and therefore more transparent and passive for the comfort of the user ("generating non-visible light output (e.g. infra-red)" (Mack, column 5, line 57).

Regarding claim 9, the combination between Usui, Mack, Teitelbaum, and Picone, which teaches the invention of claim 1 discussed above, also teaches wherein the mobile terminal is a mobile telephone (Teitelbaum, Figure 12).

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Regarding claim 11, Mack of the combination between Usui, Mack, Teitelbaum and Picone, which teaches the invention of claim 1, further comprises means for determining an orientation of the mobile terminal for determining an angle between said at least first and second angle of view (Mack, Figure 6)

Regarding claim 12, Mack of the combination between Usui, Mack, Teitelbaum, and Picone, which teaches the invention of claim 1, discloses wherein said at least one camera comprises first and second cameras, said first camera adapted to record at least one still image of the user from at least the first angle of view and said second camera adapted to record at least one still image of the user from at least the second angle of view (Mack, Figure 12)

Regarding claims 21, 22, and 23, the invention of claims 21-23 are obvious in view of Usui, Mack, Teitelbaum, Picone and Sadovnik for the same reasons and motivation as applied to claim 1 above. In claim 22-23 which invoke determining a facial shape, this information is by nature incorporated in the generated 3D facial model of claim 1.

5. **Claims 19, 4, 13, 14,** and **15** are rejected under 35 U.S.C. 103(a) as being unpatentable over Usui et. al (JP404242106A – a translation is on order and will be provided with the mailing of the next office action), Mack et al. (US patent 6,377,700),

Teitelbaum (US 5,872,834), Picone et. al. (US 5,293,452) and Sadovnik (US 5,497,430).

Regarding claims 19 and 4, Usui does not teach at least one camera comprising a charged couple device (CCD) camera, which is a digital camera.

Sadovnik discloses at least one camera comprising a charged couple device camera, which is a digital camera, in the analogous area of biometric recognition systems ("At the same time, one would like to use existing inexpensive CCD video cameras", Sadovnik, column 13, line 46).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a CCD video camera, which is a digital camera, because they are relatively inexpensive ("At the same time, one would like to use existing inexpensive CCD video cameras", Sadovnik, column 13, line 46).

Regarding claims 13 and 20, the invention of claim 13 and 20 are obvious in view of Usui, Mack, Teitelbaum, Picone and Sadovnik for the same reasons and motivation as applied to claims 1, 3 and 7 above.

Regarding claim 14, Mack of the Usui, Mack, Teitelbaum, Picone, and Sadovnik combination discussed in claim 13 further comprises a light source for projecting

structured light on the user's face for use in obtaining said at least two still images of the user's face (Mack, Figure 6, numeral 30 and 32).

Regarding claim 15, Teitelbaum of the Usui, Mack, Teitelbaum, Picone, and Sadovnik combination discussed in claim 13, teaches wherein said mobile terminal is a mobile telephone (Teitelbaum, Figure 12).

at least one camera directed toward the user's face (Usui, Figure 2, numeral 112); memory means for storing user profile information relating to authorized users of a system (Usui, Figure 1, numeral 17);

processor connected to said at least one camera, configured to process the still images obtained by said at least one camera (Figure 1, numeral 13) and to generate a 3-dimensional model of the user's face (Usui, Figure 2, numeral 15, see Figures 3, 5-7), and

processing means for comparing the generated model with the stored user profile information to determine the user (Figure 1, numeral 16).

Usui does not teach (italicized):

(1) at least one camera configured to record at least two still images of a user from at least first and second angles of view;

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(2) to generate a facial texture bit map of the user's face using the at least one still image of the user's face, and to compare the facial texture bit map with the stored user profile information to determine whether the user is authorized to access the system.

- (3) a mobile hand held terminal for recognizing a user's identity during an attempt to access the mobile terminal;
- (4) processing means for comparing the generated model with the stored user profile information to determine whether the user is *authorized to access a system, said* processing means comprising means for granting access to the system when the generated model matches the profile information of one of the authorized users stored in the memory means, thereby indicating recognition and authorization of the user, and
  - (5) means for *updating the profile information* of the one of the authorized users with the generated model after each grant of access by said means for granting access such that the updated profile information comprises an average of the generated model and the previously stored profile information.

Mack discloses a method and apparatus for capturing stereoscopic images using image sensors ("The present invention relates generally to three-dimensional

(3-D) models and, in particular, to a method and apparatus for capturing stereoscopic images to be processed into 3-D models of objects.", column 1, line 8) wherein at least two cameras are directed toward the user's face and adapted to record at least two still images of the user from at least first and second angles of view (Mack, Figure 2, numeral 22 and 23).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize, as the image 3D image capture system of Usui, the plural camera system of Mack whereby at least two still images of the user's face are recorded from first and second angles, in order to provide a well known, robust and reliable way with which to capture three dimensional points for modeling an object ("In creating three-dimensional (3-D) models of real objects, a multitude of images of real objects are taken from different positions to exploit the differences in the objects' projection." Mack, column 2, line 40) and without specialized equipment and operating expertise ("by using a 3-D imaging device system that can capture images of objects which are subsequently used to create 3-D data would allow consumers without special expertise to generate 3-D models of real objects expeditiously and with ease" as stated by Mack in column 1, line 52).

Mack also teaches the obtained 2-dimensional still image of the user's face being used to determine the user's facial texture (column 3, line 631).

It would have been obvious to one of ordinary skill in the art to further modify the 3-dimensional face recognition apparatus taught by the 3D image capture system of

Usui to include textural face data as taught by Mack, in conjunction with the generated 3-dimensional model, to determine whether the user is authorized to access the system, because textural face data provides additional information for comparison for the recognition system "such as physical surface properties of an object" (Mack, column 3, line 631).

While the combination between Usui and Mack discloses the invention above, the combination does not teach

- (3) <u>a mobile hand held terminal</u> for recognizing a user's identity during an attempt to access the mobile terminal;
  - (4) processing means for comparing the generated model with the stored user profile information to determine whether the user is <u>authorized to access a system</u>, <u>said processing means comprising means for granting access to the system when</u> the generated model matches the profile information of one of the authorized users <u>stored in the memory means</u>, thereby indicating recognition and authorization of the <u>user</u>; and
  - (5) means for <u>updating the profile information</u> of the one of the authorized users with the generated model after each grant of access by said means for granting access such that the updated profile information comprises an average of the generated model and the previously stored profile information.

Teitelbaum discloses a telephone with biometric sensing device ("This invention relates generally to telephones and more particularly to a telephone provided with a

contact imaging device for identifying an operator of the telephone.", column 1, line 6) comprising:

- (1) a mobile hand held terminal for recognizing a user's identity during an attempt to access the mobile terminal ("the contact imaging device allows for a user of the telephone to be identified", column 4, line 14);
- (2) processing means for comparing the generated model with the stored user profile information to determine whether the user is authorized to access a system ("The comparator means analyzes the biometric data for identifiable features and compares predetermined features against those of biometric templates stored in non-volatile memory.", Teitelbaum, column 11, line 35), said processing means comprising means for granting access to the system when the generated model matches the profile information of one of the authorized users stored in the memory means, thereby indicating recognition and authorization of the user ("Once identified, the salesman is provided access to telephone features and services in a predetermined manner.", Teitelbaum, column 8, line 50).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the three dimensional modeling and biometric (i.e., facial) biometric system of the Usui and Mack combination described above, into the mobile hand held terminal of Teitelbaum to determine whether the user is authorized to access a system, in order to provide Teitelbaum with a contact free method of capturing a biometric (i.e., a face instead of a fingerprint) for the convenience of the user, and to ensure accuracy of recognition ("recognizing rate is further improved" at Usui, abstract).

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While the combination between Usui, Mack, and Teitelbaum disclose the invention above, the combination does not teach a means for updating the profile information of the one of the authorized users with the generated model after each grant of access by said means for granting access such that the updated profile information comprises an average of the generated model and the previously stored profile information.

Picone discloses a voice log-in using spoken name input ("This invention is a voice log-in technique in which access to, for example, a medical records database, is granted based on the computerized recognition of a person's spoken name.", column 2, line 24) that teaches a means for updating the profile information of the one of the authorized users with the generated model after each grant of access by said means for granting access such that the updated profile information comprises an average of the generated model and the previously stored profile information ("For each successful verification, the dynamic reference updating procedure averages the feature sets associated with the reference template and the input speech, and the reference template is updated accordingly," Picone, column 2, line 1)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to add a means for updating the profile information of the one of the authorized users with the generated model after each grant of access by said means for granting access such that the updated profile information comprises an average of the generated model and the previously stored profile information as taught by Picone to

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the combination of Usui, Mack, and Teitelbaum in order to accommodate gradual changes in appearance and maintain recognition over a long time period ("thereby

accommodating changes.", Picone, column 2, line 5).

Allowable Subject Matter

7. Claims 17 and 18 are allowed. Regarding claims 17 and 18, the prior art of record

does not reasonably teach or suggest the steps of sending, from a mobile terminal, 2D

still images over a network to sever, generating a 3D model at the server, determining

facial shape using the 3D model, sending the shape and model back to the mobile

terminal, and determining whether the shape data matches a profile stored in memory.

8. Claims 10 and 16 are objected to as being dependent upon a rejected base claim,

but would be allowable if rewritten in independent form including all of the limitations of

the base claim and any intervening claims. Regarding claims 10 and 16, the prior art

does not teach the invention of claim 1, where the mobile terminal transmits the images

to a server over a network and receives a 3-dimensional model and a facial texture bit

map from the server.

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Response to Arguments

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**Summary of Applicant's Arguments**:

Applicant states that there is no indication in Usui that the registered data is in fact user

profile information.

Examiner's Reply:

An oral translation of the figure was obtained in which it was determined that the

registered data is in fact user profile information. In fact, the "face is recognized" in the

abstract by being "collated with the registered data in database 17."

**Summary of Applicant's Arguments**:

Applicant states that the cited references fail to disclose or suggest at least the feature

of a processing unit connected to said at least one camera.

Examiner's Reply:

Camera 112 is part of Numeral 11, which is connected to a processing means, Numeral

13.

**Summary of Applicant's Arguments:** 

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Applicant states that none of the figures in Usui shows that the processing means (13)

is connected to the cameras 112 and 115.

Examiner's Reply:

Numeral 115 in Figure 2 is not a camera but a light projector. Camera 112 is part of

numeral 11, which is connected to a processing means, numeral 13.

**Summary of Applicant's Arguments**:

Applicant states that the translated portion of Usui does not indicate that reference

numeral 13 processes the still images.

Examiner's Reply:

The processing unit denoted by numeral 13 processes still images as those are the only

kinds of images inputted to the system from the camera.

**Summary of Applicant's Arguments:** 

Applicant states that to extract a number of individual elements which are picked and

chosen to recreate the claimed invention, is improper absent some teaching or

suggestion in the references to support their use in the particular claimed combination.

Examiner's Reply:

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Applicant's argument of improper hindsight reasoning is not directed to any particular combination made by the Examiner and therefore Examiner urges Applicant to review the motivations used as part of the combination made in claim 1. In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

## **Summary of Applicant's Arguments:**

Applicant states that Teitelbaum (directed to "Telephone with Biometric Sensing Device") and Picone (directed to speech recognition) are directed references that are unrelated and otherwise, non-analogous to Usui and Mack, as well as, the present invention.

# Examiner's Reply:

In response to applicant's argument that Teitelbaum and Picone are non-analogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the

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claimed invention. See In re Oetiker, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir.

1992). In this case, Picone is directed to the same problem solving area of updating a

template with each authentication to account for changes that occur over time in a user

of a system. Teitekbaum, on the other hand, is directed to the same problems solving

area of determining whether a user is authorized to access a system based on whether

a generated model matches the profile information of one of the authorized users.

**Summary of Applicant's Arguments:** 

Applicant states that the Office Action has applied five references in an effort to

reconstruct Applicants' presently claimed invention.

Examiner's Reply:

In response to applicant's argument that the examiner has combined an excessive

number of references, reliance on a large number of references in a rejection does not,

without more, weigh against the obviousness of the claimed invention. See In re

Gorman, 933 F.2d 982, 18 USPQ2d 1885 (Fed. Cir. 1991).

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to ELISA M. RICE whose telephone number is (571)270-

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1582. The examiner can normally be reached on 8:00a.m.-5:30p.m. EST Monday thru

Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Brian P. Werner can be reached on (571)272-7401. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

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/Elisa M Rice/

Examiner, Art Unit 2624

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